C0726

Version: 2.0



# Cyanocobalamin

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 20/01/2012 Revision date: 26/09/2017

Supersedes 24/01/2012

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance

Trade name : Cyanocobalamin

EC-No. : 200-680-0 CAS-No. : 68-19-9 Product code : C0726

Formula : C63H88CoN14O14P

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended

only for "in vitro laboratory" research purposes.

## 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Duchefa Biochemie B.V.
A. Hofmanweg 71
2031 BH Haarlem - The Netherlands
T +31(0)23-5319093 - F +31(0)23-5318027
info@duchefa.nl

#### 1.4. Emergency telephone number

Emergency number : Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world	http://apps.who.int/poisoncentres/	Consult website for a local poison centre
directory of poison centres		

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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#### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : Cyanocobalamin

CAS-No. : 68-19-9 EC-No. : 200-680-0

Name	Product identifier	%
Cyanocobalamin	(CAS-No.) 68-19-9	>= 96
	(EC-No.) 200-680-0	

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eye contact : Rinse immediately with plenty of water.

First-aid measures after ingestion : Rinse mouth. Get immediate medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry chemical powder. Carbon dioxide (CO2).

## 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in : Thermal decomposition generates : COx. NOx. HCN.

case of fire

## 5.3. Advice for firefighters

Protection during firefighting : Self-contained breathing apparatus. Wear proper protective equipment.

# **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid raising powdered materials into airborne dust. Wear suitable

protective clothing.

## 6.1.1. For non-emergency personnel

No additional information available

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### 6.1.2. For emergency responders

No additional information available

## 6.2. Environmental precautions

Do not allow to enter drains or water courses.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up dry powder and dispose properly.

## 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling : Store in dry, well-ventilated area.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed and dry. Store at room temperature.

Incompatible products : Strong acids. Oxidizing substances.

### 7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

### Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

## Eye protection:

Safety glasses

## Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Dust production: dust mask with filter type P1

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystals. Powder.

Molecular mass : 1355,4 g/mol

Colour : dark red.

Odour : Odourless.

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Odour threshold : No data available

pH : 5 pH solution : 4,75

Relative evaporation rate : No data available

(butylacetate=1)

Melting point : > 300 °C

Freezing point : No data available **Boiling point** : No data available Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Solubility : Readily soluble in water.

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

## 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No additional information available

## 10.4. Conditions to avoid

Keep away from naked flames/heat. Do not allow water (or moist air) contact with this material. Light (daylight).

#### 10.5. Incompatible materials

Strong oxidizing agent. Strong acids.

#### 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. COx. NOx. SOx. HCN.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

## Cyanocobalamin (68-19-9)

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Cyanocobalamin (68-19-9)		
LD50 oral rat	> 5000 mg/kg	
Skin corrosion/irritation	: Slightly irritant but not relevant for classification pH: 5	
Serious eye damage/irritation	: Not classified pH: 5	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Cyanocobalamin (68-19-9)	
EC50 Daphnia 1	> 100 mg/l Daphnia Magna

## 12.2. Persistence and degradability

Cyanocobalamin (68-19-9)	
Biodegradation	< 5 %

## 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

Additional information : Prevent entry to sewers and public waters. Avoid release to the environment.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

Product/Packaging disposal

recommendations

: Disposal must be done according to official regulations.

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## **SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA		
14.1. UN number	14.1. UN number			
Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable		
No supplementary information available				

#### 14.6. Special precautions for user

### . Overland transport

Not applicable

#### - Transport by sea

Not applicable

### - Air transport

Not applicable

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Cyanocobalamin is not on the REACH Candidate List

Cyanocobalamin is not on the REACH Annex XIV List

#### 15.1.2. National regulations

## Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according

to VwVwS, Annex 3; ID No. 3871)

12th Ordinance Implementing the Federal Immission Control Act -

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

12.BImSchV

#### **Netherlands**

SZW-lijst van kankerverwekkende

stoffen

: The substance is not listed

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SZW-lijst van mutagene stoffen NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

: The substance is not listed

Ontwikkeling

## 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

## Indication of changes:

1.4	Emergency number	Modified	
2	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	Obsolete
8.2	Hand protection	Modified	Specified material, thickness, et cetera of gloves

#### Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: Manufacturer. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

#### SDS Biochemicals version 2017

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product